Performance of Grain Sorghum Hybrids in Louisiana 2015

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LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER
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Performance of Grain Sorghum Hybrids in Louisiana, 2015

H.J. "Rick" Mascagni, Jr., Kelly Arceneaux, Julien Beuzelin, Sebe Brown, Blair Buckley, Jacob Fluitt, Dan Fromme, Don Groth, Dustin Harrell, Steve Harrison, Clayton Hollier, Fangneng Huang, David Kerns, Manoch Kongchum, James Leonards, Josh Lofton, Paul Price, Chris Roider, Keith Shannon, Bill Waltman, and Caitlin Woodard

Performance of grain sorghum hybrids is annually evaluated by Louisiana Agricultural Experiment Station (LAES) researchers in Official Variety Trials (OVT's). The purpose of these trials is to provide to Louisiana growers, seedsmen, county agents of the Louisiana Cooperative Extension Service (LCES), and other interested individuals and organizations with unbiased performance data for commercial grain sorghum hybrids submitted for evaluation by private agencies.

The cooperating LAES units in 2015 were: Rice Research Station, Crowley; Central Research Station, Baton Rouge; Dean Lee Research Station, Alexandria; Red River Research Station, Bossier City; Northeast Research Station, St. Joseph; and Macon Ridge Research Station, Winnsboro.

In recent years, the sugarcane aphid has become a serious pest in Louisiana grain sorghum production. Research is being currently being conducted by LAES entomologists to develop effective strategies for combatting this pest, including the use of resistant hybrids and insecticide application.

PROCEDURES

In 2015, 31 grain sorghum hybrids were entered in the LAES yield trials. Soil type, cultural practices, location summaries, and weather graphs are listed prior to data tables for each location. In weather graphs, maximum and minimum temperatures are weekly averages and rainfall weekly totals. None of the trials were irrigated.

The experimental design at each location was a randomized complete block design with four or five replications. Traits measured and rating scales are listed in Table 1. Traits not listed in Table 1 are footnoted at the base of the respective table. Analysis of variance and least significant differences (LSD) were computed using SAS (Statistical Analysis System). We used the protected F-test, which means LSD's were calculated only if differences among hybrids existed at the 90% confidence level. If differences were significant, an LSD at the 10% probability level was calculated. If the LSD (0.10) for yield in a trial is 400 lb/acre, there is a 10% chance that two hybrids with a reported yield difference of 400 lb/acre are genetically equal and a 90% probability they have differences in genetic potential in that particular environment. LSD values are influenced by how well soil fertility, stand establishment, plot length, harvest efficiency, and other variables are controlled and by number of replications for each hybrid. The letters NS are used in the text and tables to indicate lack of significance (not significantly different) at the 10% probability level. The coefficient of variation (CV) reflects the magnitude of experimental error (random variation not accounted for by hybrids and replications) in relation to the trial mean. A high CV means that relative differences among hybrids were not consistent among replications, which reduces the precision of the test.

Trials were conducted across the state in 2015 to elucidate grain sorghum hybrids that demonstrate resistance to the sugarcane aphid. Sorghum OVT's at five locations were surveyed for the presence of the aphid. Additionally, trials were conducted at Alexandria, St. Joseph, and Winnsboro evaluating the resistance of hybrids to sugarcane aphid, with and without insecticide.

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Table 1. Traits and rating scales for LAES grain sorghum official variety trials.

Trait	Abbreviation	Description
Yield	Yield	Grain yield @ 14.0% harvest grain moisture, lb/a (2015)
2-year yield average	2- yr avg	Average grain yield for 2014 and 2015, bu/acre
Grain moisture	Gr mo	Grain moisture at harvest, %
Test weight	Test wt	Volume weight of grain, lb/bu
Heading date	Mid-head	Date of head emergence in 50% of plants, days after planting (DAP)
Plant height	Plt ht	Height from ground to top of head, inches (in)
Head type	Head type	Head type is a measure of head architecture, with ratings of 1-5; 1-closed, 3-intermediate, and 5-open
Head exertion	Head exert	Distance from flag leaf to base of head, in
Midge damage	Midge	Average percent of head damaged, %
Bird damage	Bird	Average percent of head damaged, %

RESULTS

Yield data for 2015 and two-year averages (2014 and 2015) and other agronomic data for each location are presented in Tables 2-8. Yields for the hybrids in the highest-yielding group for 2015 (yields falling within one LSD value) are in bold print. Hybrids in bold print with a single asterisk are in the highest-yielding group for both years, 2014 and 2015. A summary of yield performance for 31 hybrids at seven locations is presented in Table 9. At St. Joseph location, two planting dates were evaluated for the OVT's. In Table 10, participating seed companies are listed. There were seven seed companies that participated in the 2015 grain sorghum official variety trials.

Results of the experiments evaluating grain sorghum hybrids for resistance to the sugarcane aphid are presented in Table 11. Hybrids from ten seed companies offer some degree of resistance to the pest. Please visit www.lsuagcenter.com for more information on recommended insecticides for WSA and other pests in grain sorghum.

For additional information on grain sorghum trials, please contact Dr. Rick Mascagni, NERS (Ph: 318-766-3769); e:mail: hmascagni@agcenter.lsu.edu) or Dr. Dan Fromme, DLRS (Ph:318-427-4424; e:mail: dfromme@agcenter.lsu.edu)

Grain Sorghum Hybrid Performance Trial at the Dean Lee Research Station – Alexandria

Location Summary

Rainfall was relatively well distributed across the growing season (see graph below). Grain yields ranged from 75.4 to 130.6 bu/acre, with a trial average of 101.4 bu/acre (Table 2). Six hybrids fell in the highest-yielding group for 2015 and three hybrids were in the highest-yielding group for both years, 2014 and 2015. Lodging and bird damage was very low in the trial. Other agronomic data are presented in Table 2.

Soil type	Coushatta silt loam
Row spacing	38 inches
Seeding rate	7 seed/ft
Previous crop	Soybean
Planting date	April 1
Fertilization	*Sidedress:*150 lb N/acre – 30-0-0-2 (5/8);
Pesticides	*Preemerge:* 1 pt Medal2/acre plus 1.5 qt Atrazine/acre; *Insecticides:* 1 oz Transform/acre (6/18); 5 oz Sivanto/acre (July 13);
Harvest date	August 5

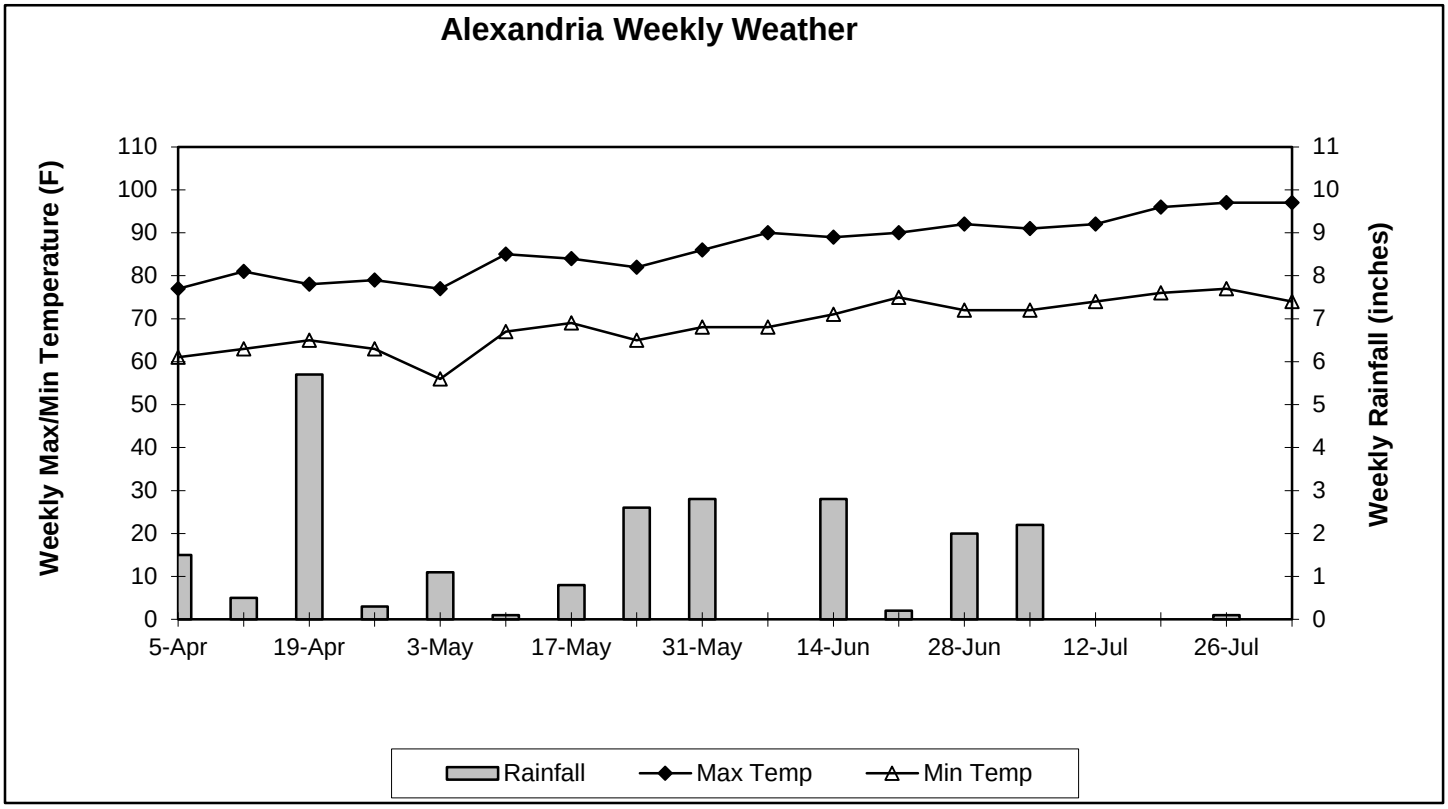

Table 2. Performance of grain sorghum hybrids at Alexandria, 2015.

Brand/hybrid	2015 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Plants[3]	Mid-head	Plt ht	Head exert	Lo[4]	Bird
	bu/a	bu/a	%	lb/bu	no/a	DAP	in	in	%	%
DEKALB DKS51-01 `	**130.6**	109.4	16.6	57.6	73,850	77	64	8	0	5
REV® RV9782™*	**118.9**	121.8	16.7	57.6	69,900	75	58	7	5	5
REV® RV9562™*	**118.9**	121.4	14.2	59.1	78,660	77	59	6	5	5
Dyna-Gro GX15672	**118.9**	-	14.4	58.5	76,430	75	63	7	5	5
Pioneer 83P17*	**114.7**	117.5	17.7	54.5	65,610	77	60	6	5	5
Alta Seeds AG2105	**114.3**	-	14.6	57.2	70,250	75	62	8	5	5
DEKALB DKS53-67	112.5	121.2	17.5	58.2	78,660	75	59	6	5	5
Dyna-Gro 765B	111.1	111.0	17.4	57.2	65,950	77	64	6	0	5
Dyna-Gro M75GB39	108.8	111.0	15.9	56.1	69,040	77	57	7	5	0
Pioneer 84G62	108.6	-	16.7	58.1	70,590	76	59	5	0	5
REV® RV9924™	106.1	110.5	15.7	56.2	75,910	76	61	8	0	10
Sorghum Partners SPX17414	104.0	-	19.5	55.4	65,270	78	58	7	0	5
Dyna-Gro GX15561	103.5	-	14.9	58.1	75,060	76	60	6	5	5
Sorghum Partners SPX17514	103.2	-	20.2	54.2	69,900	78	58	4	5	0
Alta Seeds AG1203	103.0	-	16.9	56.9	53,930	75	53	6	0	5
Pioneer 83P99	101.3	107.5	18.3	55.8	73,510	79	58	5	0	0
Sorghum Partners SP70B17	101.1	-	14.2	55.7	68,190	75	58	8	5	5
Sorghum Partners SP7715	99.0	100.3	18.6	58.0	70,420	76	59	9	5	5
Sorghum Partners SP7868	98.8	104.2	14.4	58.3	71,960	75	60	10	5	5
Pioneer 84P80	96.9	101.8	16.5	56.1	73,510	76	59	6	5	10
Alta Seeds AG3201	96.9	-	16.4	57.8	78,150	74	59	7	5	10
Alta Seeds AG2103	96.3	-	16.7	49.8	68,010	75	55	7	5	5
Alta Seeds XG30002	94.8	-	18.7	55.2	61,140	79	57	7	5	0
Sorghum Partners NK6638	90.5	95.1	16.4	55.1	71,110	75	60	8	0	5
Alta Seeds XG02008	88.4	-	15.9	55.3	68,870	73	56	8	5	5
Mycogen 1G855	87.4	-	16.1	55.5	64,750	80	61	6	5	0
Alta Seeds AG2115	86.2	-	16.9	47.9	71,790	75	57	7	5	5
Dyna-Gro M77GB52	85.7	94.9	16.1	56.5	73,170	76	58	8	0	5
Alta Seeds XG30003	84.9	-	21.0	56.5	60,630	77	54	7	5	0
Alta Seeds AG3101	84.8	-	15.0	56.1	67,840	73	63	10	5	5
Alat Seeds XG30001	75.4	-	18.0	52.0	66,470	73	56	9	5	5
Average	**101.4**		**16.7**	**56.0**	**69,950**	**76**	**59**	**7**	**5**	**5**
CV, %	**14**		**9**	**7**	**13**	**2**	**4**	**17**	**130**	**98**
LSD (0.10)	**16.5**		**1.7**	**4.7**	**10,690**	**2**	**3**	**1**	**5**	**5**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2015.

[2]Hybrids in bold with an asterisk (*) were in the highest-yielding group for both years, 2014 and 2015.

[3]Plants=Plant population, plants/acre

[4]Lo=Lodging, % of plants lodged

Grain Sorghum Hybrid Performance Trial at the Central Research Station – Baton Rouge

Location Summary
Rainfall was about normal across the growing season (see graph below). Temperatures were also relatively mild. Grain yields were respectable considering the late planting date, with yields ranging from 54.6 to 111.8 bu/acre and a trial average of 88.3 bu/acre (Table 3). There were only two hybrids in the highest-yielding group for 2015. Harvest grain moistures were very high. Even though Anthracnose symptoms ranged from 5 to 5%, there appeared little correlation between Anthracnose and yield.

Soil type	Commerce silt loam
Row spacing	30-inch
Seeding rate	5 seed/ft
Previous crop	Soybeans
Planting date	June 5
Fertilization	*Sidedress:* 100 lb N/acre (32-0-0) (7/10);
Pesticides	*Postemerge:* 1 oz Halo Max/acre plus 1 qt Atrazine/acre (7/13); *Insecticides:* 6 oz Sivanto/acre (7/30); 6 oz Sivanto/acre (8/21);
Harvest date	September 18

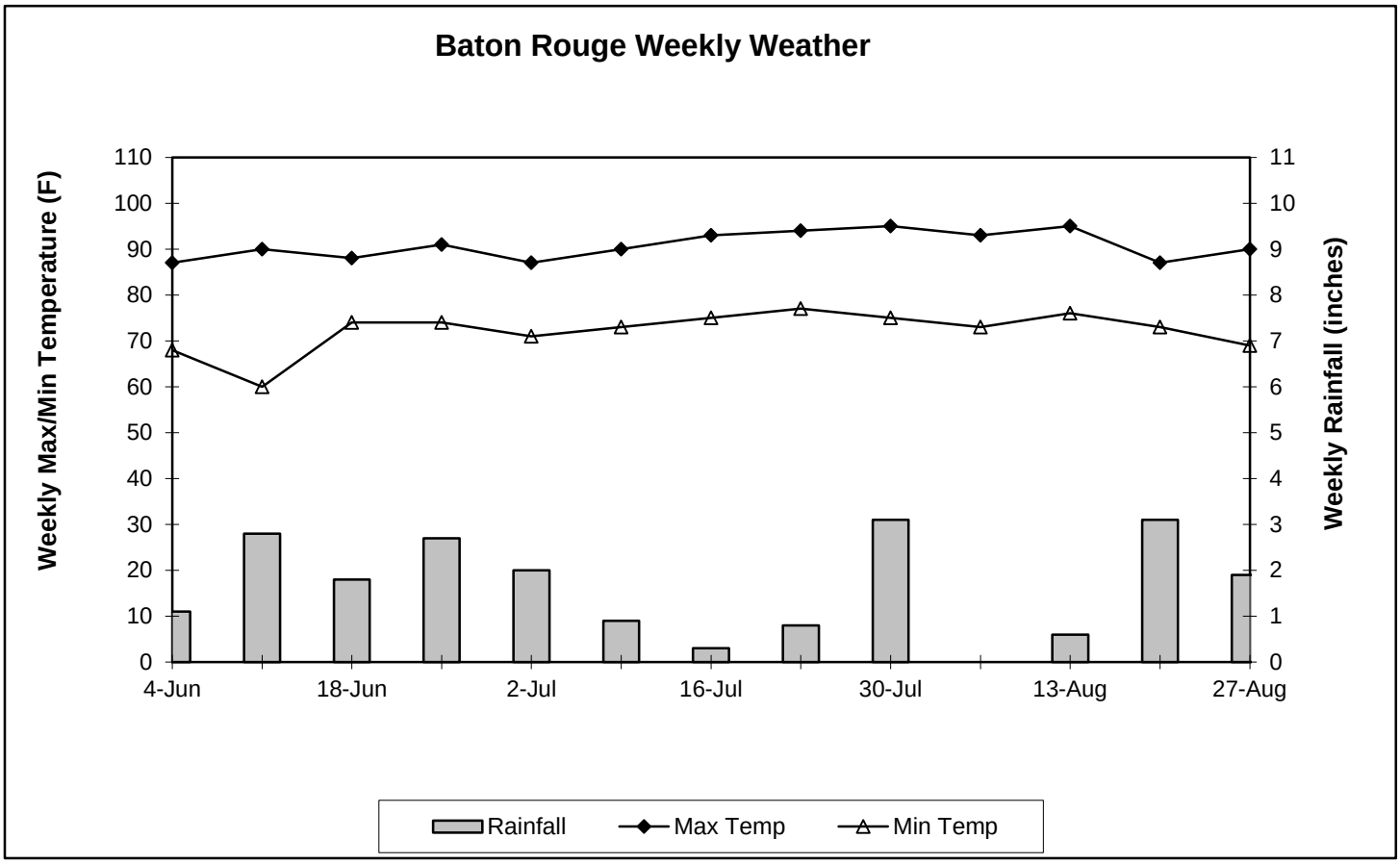

Table 3. Performance of grain sorghum hybrids at Baton Rouge, 2015.

Brand/hybrid	2015 Yield[1]	2-Yr avg[2]	Gr mo	Mid-head	Plt ht	Head exert	Midge	Anth[3]
	bu/a	bu/a	%	DAP	in	in	%	%
Alta Seeds AG2105	**111.8**	-	21.4	71	56	8	5	15
Pioneer 84P80	**103.0**	79.9	20.0	72	50	2	5	35
Sorghum Partners SP7715	99.5	81.9	17.9	70	52	8	10	15
Alta Seeds AG3201	99.4	-	18.0	68	48	2	15	10
Pioneer 83P99	97.2	78.2	21.7	73	47	3	10	15
REV® RV9562™	97.1	75.7	20.0	70	50	5	5	35
Pioneer 84G62	96.6	-	19.7	74	47	2	10	20
Alta Seeds XG30001	96.4	-	19.9	66	47	5	5	10
REV® RV9924™	95.7	72.1	19.3	70	51	5	5	30
Sorghum Partners SP7868	94.3	80.9	22.6	71	53	7	5	20
Alta Seeds AG3101	93.5	-	18.2	62	56	7	20	55
Sorghum Partners NK6638	92.3	75.2	17.6	68	48	4	5	15
DEKALB DKS53-67	91.0	74.4	20.5	72	49	2	5	10
Alta Seeds XG30002	90.6	-	25.7	74	50	8	0	5
Dyna-Gro M77GB52	90.0	73.5	19.8	70	45	2	5	20
Sorghum Partners SP70B17	89.6	-	22.9	73	50	4	5	30
Alta Seeds AG2115	89.5	-	19.6	68	49	4	15	25
Dyna-Gro GX15561	89.4	-	21.8	75	54	3	5	15
Alta Seeds XG02008	89.1	-	21.9	69	48	5	5	20
Dyna-Gro M75GB39	88.3	69.1	23.0	72	49	5	5	30
Pioneer 83P17	86.3	72.3	29.7	74	51	3	10	5
Alta Seeds AG2103	85.5	-	24.0	73	49	5	5	20
REV® RV9782™	84.8	74.2	21.0	68	45	2	5	30
Dyna-Gro GX15672	84.4	-	24.6	74	53	3	5	10
Dyna-Gro 765B	84.0	67.0	25.5	75	58	5	10	10
Sorghum Partners SPX17414	81.9	-	24.8	78	54	3	5	5
DEKALB DKS51-01	77.6	63.6	25.3	76	52	4	5	10
Alta Seeds XG30003	76.8	-	23.7	72	51	3	10	35
Alta Seeds AG1203	69.7	-	31.9	77	54	3	5	5
Sorghum Partners SPX17514	57.5	-	32.9	81	54	3	5	5
Mycogen 1G855	54.6	-	29.5	81	56	4	5	5
Average	**88.3**		**22.7**	**72**	**51**	**4**	**5**	**15**
CV, %	**11**		**13**	**3**	**4**	**52**	**84**	**56**
LSD (0.10)	**11.3**		**3.5**	**3**	**3**	**NS[4]**	**10**	**15**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2015.

[2] No hybrids were in the highest-yielding group for both years, 2014 and 2015.

[3]Anth=Anthracnose, % of leaf with disease symptoms

[4]NS=Non-significant at the 0.10 probability level

Grain Sorghum Hybrid Performance Trial at the Red River Research Station – Bossier City

Location Summary

Rainfall was below normal in July (see graph below); however, grain yields were excellent, ranging from 83.3 to 155.0 bu/acre and a trial average of 114.2 bu/acre (Table 4). There were three hybrids in the 2015 highest-yielding group and two hybrids that performed well both years, 2014 and 2015. Bird damage was fairly consistent across hybrids, 5 to 20%. Other agronomic data are presented in Table 4.

Soil type	Caplis very fine sandy loam
Row spacing	40 inches
Seeding rate	7 seed/ft
Previous crop	Cotton
Planting date	April 30
Fertilization	*Sidedress:* 130 lb N/acre – 30-0-0-2
Pesticides	*Preemerge:* 3.2 pt Atrazine/acre plus 1.5 pt Gramoxone/acre (4/30); *Postemerge:* 0.67 oz Permit/acre (5/15); *Insecticides:* 0.75 oz Buctril/acre (5/15); 1.3 oz Karate/acre (7/22); *Preharvest:* 1.5 pt Gramoxone/acre (8/27);
Harvest date	August 31- September 1

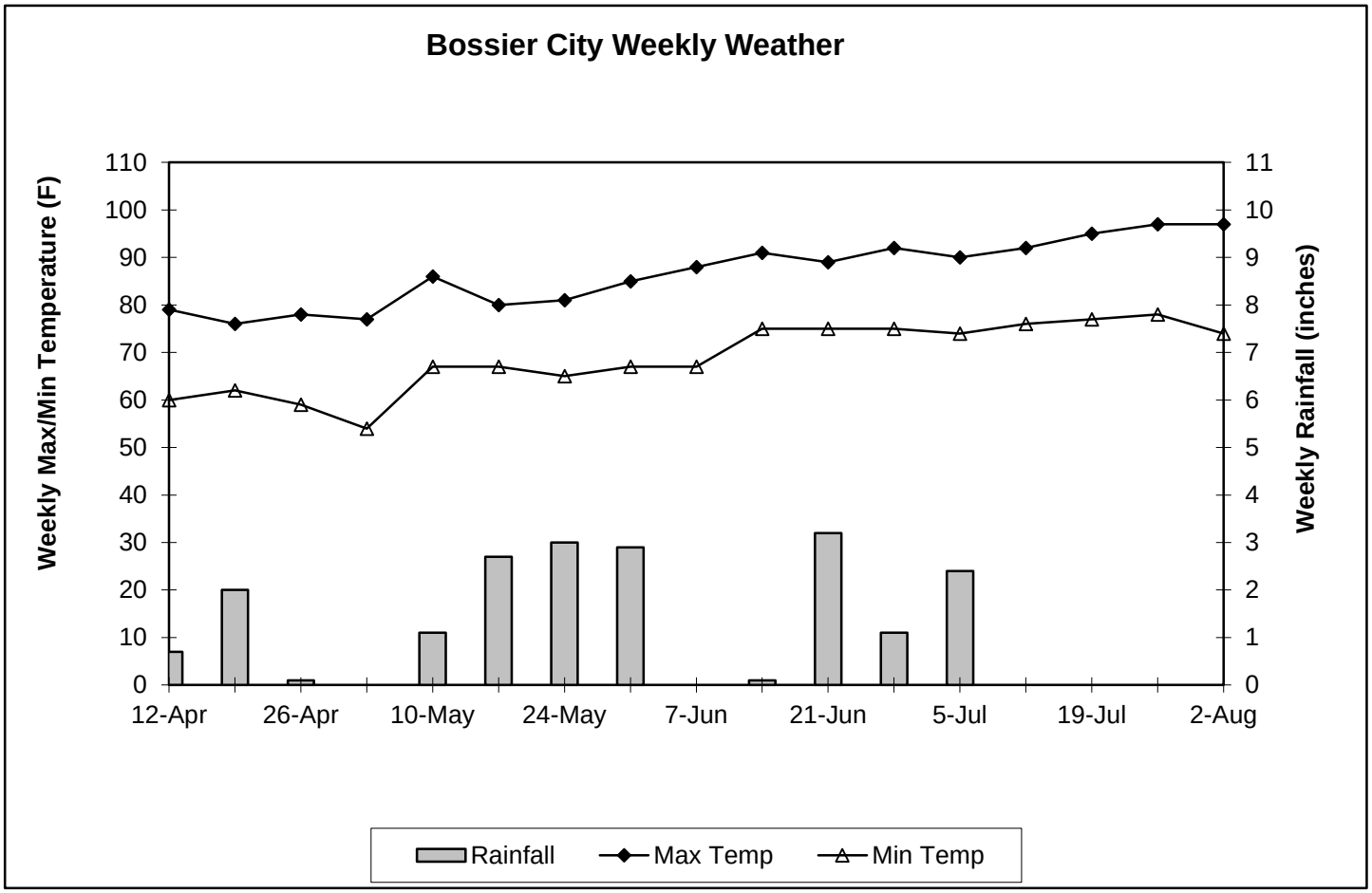

Table 4. Performance of grain sorghum hybrids at Bossier City, 2015.

Brand/hybrid	2015 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Mid-head	Plt ht	Head exert	Bird
	bu/a	bu/a	%	lb/bu	DAP	in	in	%
DEKALB DKS51-01*	**155.0**	131.5	14.0	58.5	70	61	2	15
Mycogen 1G855	**142.4**	-	14.5	57.6	71	61	1	15
Pioneer 83P17*	**135.8**	123.6	16.8	55.3	69	61	2	15
Alta Seeds AG2115	129.2	-	13.5	54.0	65	55	3	10
REV® RV9782™	127.7	110.3	15.2	56.9	66	52	1	10
Dyna-Gro GX15561	127.1	-	14.0	57.5	68	56	1	15
REV® RV9924™	126.9	115.3	13.1	56.0	67	57	2	20
Pioneer 83P99	124.6	113.7	14.6	57.2	68	54	3	15
Alta Seeds XG30002	123.0	-	17.2	55.3	68	53	3	10
DEKALB DKS53-67	122.1	112.6	14.9	57.5	69	58	1	5
REV® RV9562™	120.7	109.2	14.9	57.3	64	55	3	15
Sorghum Partners SP7715	119.6	101.2	17.5	59.5	70	59	2	15
Sorghum Partners NK6638	119.4	99.5	14.0	56.7	67	54	3	15
Sorghum Partners SP7868	117.5	101.4	14.8	57.5	67	60	1	20
Dyna-Gro GX15672	117.1	-	13.9	58.1	68	61	1	15
Alta Seeds AG3201	116.5	-	13.8	55.4	65	58	3	15
Alta Seeds AG2105	112.6	-	14.6	56.3	65	56	2	15
Alta Seeds AG1203	112.3	-	14.2	56.7	66	52	3	15
Sorghum Partners SP70B17	111.8	-	14.2	55.8	68	55	1	15
Pioneer 84G62	108.6	-	14.4	56.8	66	52	2	15
Pioneer 84P80	107.8	101.0	13.9	58.1	65	54	3	10
Alta Seeds XG30001	106.9	-	16.9	56.5	63	50	3	10
Alta Seeds XG30003	105.8	-	16.8	56.7	68	52	2	10
Dyna-Gro 765B	104.9	101.0	15.3	55.5	72	62	2	10
Dyna-Gro M77GB52	103.5	90.2	14.9	57.0	65	55	3	20
Alta Seeds XG02008	94.8	-	14.9	52.8	62	50	2	15
Alta Seeds AG2103	93.4	-	15.4	56.7	68	47	3	10
Sorghum Partners SPX17514	92.5	-	16.5	53.9	71	56	1	10
Dyna-Gro M75GB39	91.6	93.7	16.3	58.5	67	48	3	5
Alta Seeds AG3101	85.4	-	15.4	56.7	62	56	1	10
Sorghum Partners SPX17414	83.3	-	15.8	55.8	70	53	2	15
Average	**114.2**		**15.0**	**56.6**	**67**	**55**	**2**	**15**
CV, %	**21**		**9**	**5**	**4**	**6**	**36**	**59**
LSD (0.10)	**25.5**		**1.4**	**2.8**	**3**	**4**	**1**	**NS[3]**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2015.
[2]Hybrids in bold with an asterisk (*) were in the highest-yielding group for both years, 2014 and 2015.
[3]NS=Non-significant at the 0.10 probability level

Grain Sorghum Hybrid Performance Trial at the Rice Research Station – Crowley

Location Summary
Rainfall was low in July (see graph below). The low yields, ranging from 53.1 to 64.9 bu/acre (Table 5), may be partially attributed to low July rainfall and a relatively late planting date. Test weights were very low, ranging from 46.3 to 50.6 lb/bu and a trial average of 48.7 lb/bu. Also at this coastal location, disease pressure (Anthracnose and head diseases) was high. Other agronomic data are presented in Table 5.

Soil type	Crowley silt loam
Row spacing	30 inches
Seeding rate	5 seed/ft
Previous crop	Grain sorghum
Planting date	May 5
Fertilization	*Sidedress:* 250 lb/acre – 0-24-24-2.7 and 150 lb N/acre – 46-0-0 (June 5);
Pesticides	*Postemerge:* 1 qt Facet/acre, 1 qt Atrazine/acre, 1.5 pt Charger Max/acre, 1 oz Permit/acre, and 1.2 pt COC/acre (June 5); *Insecticides:* 1 oz Transform/acre (July 21); 2 oz Belt/acre, 0.5 lb Acephate/acre, 2.8 oz Leverage 360/acre, and 1 pt COC/acre (8/27);
Harvest date	August 31

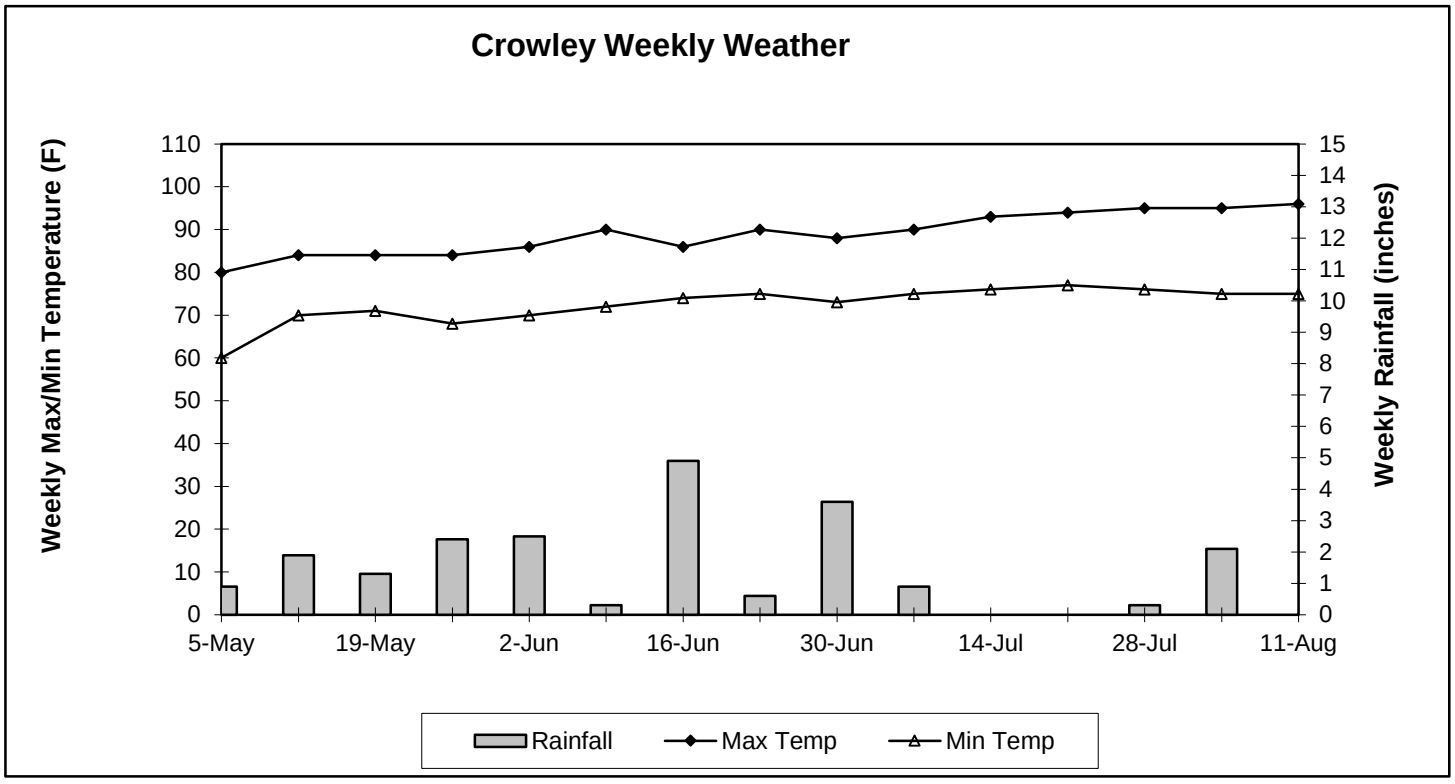

Table 5. Performance of grain sorghum hybrids at Crowley, 2015.

Brand/hybrid	2015 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Mid-head	Plt ht	Head exert	Head type	Anth[3]	Head dis[4]
	bu/a	bu/a	%	lb/bu	DAP	in	in	1-5	%	%
Sorghum Partners SP70B17	**64.9**	-	18.9	49.1	77	48	2	1	20	20
Alta Seeds AG2105	**62.7**	-	20.4	47.8	76	48	4	2	10	10
Alta Seeds AG3101	**62.7**	-	18.5	49.6	69	49	7	2	30	20
Alta Seeds XG02008	**61.8**	-	19.1	48.7	74	44	2	2	20	20
REV® RV9562™	**60.8**	70.3	18.2	49.7	78	48	3	3	40	20
Pioneer 84P80	**60.5**	73.6	17.3	50.5	77	46	1	2	40	10
REV® RV9924™	**59.7**	72.3	17.7	50.2	74	48	2	2	40	20
Dyna-Gro 765B*	**58.1**	82.1	22.4	46.6	84	55	3	1	10	20
Pioneer 83P17*	**57.6**	82.2	21.1	47.3	81	51	2	2	20	10
Sorghum Partners SP7715*	**57.3**	78.4	20.0	48.3	78	50	4	2	10	20
Sorghum Partners SP7868*	**56.9**	79.0	20.1	48.4	79	47	5	1	20	20
Alta Seeds AG3201	**56.8**	-	16.7	50.6	75	45	1	3	40	20
DEKALB DKS51-01*	**55.0**	80.1	19.1	49.0	82	51	4	2	10	10
Alta Seeds AG2115	**53.9**	-	17.2	50.3	75	44	3	2	30	20
Sorghum Partners NK6638	**53.9**	76.3	18.9	48.9	78	45	2	3	20	10
Pioneer 83P99	**53.0**	71.2	19.3	48.8	78	45	1	2	40	10
REV® RV9782™	**52.9**	72.9	19.5	48.4	74	45	4	2	30	20
Alta Seeds XG30001	**52.3**	-	18.8	49.1	73	43	7	2	20	10
Pioneer 84G62	**52.2**	-	17.2	50.3	78	45	2	3	40	20
Dyna-Gro M77GB52	**52.0**	73.8	18.6	49.6	77	45	3	3	20	20
Dyna-Gro GX15672	51.3	-	21.6	47.4	83	51	2	1	10	10
DEKALB DKS53-67	50.8	73.3	18.6	49.1	77	47	1	2	40	20
Sorghum Partners SPX17514	50.8	-	21.4	46.9	83	50	4	2	10	10
Alta Seeds XG30002	49.6	-	20.3	47.7	75	45	4	2	30	20
Sorghum Partners SPX17414	48.7	-	20.3	48.1	83	48	1	2	10	20
Mycogen 1G855	45.0	-	22.9	46.4	89	49	3	2	10	20
Dyna-Gro M75GB39	45.0	50.4	18.3	49.5	79	44	2	2	50	10
Alta Seeds AG1203	43.7	-	18.4	48.7	80	46	2	3	40	20
Alta Seeds AG2103	40.0	-	18.4	49.4	78	45	5	3	60	20
Dyna-Gro GX15561	38.5	-	22.5	46.3	86	48	3	1	20	20
Alta Seeds XG30003	36.6	-	20.3	47.8	78	42	2	2	30	20
Average	**53.1**		**19.4**	**48.7**	**78**	**47**	**3**	**2**	**30**	**20**
CV, %	**21**		**6**	**2**	**4**	**6**	**54**	**30**	**33**	**63**
LSD (0.10)	**12.9**		**1.4**	**1.2**	**3**	**3**	**2**	**1**	**10**	**NS[5]**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2015.
[2]Hybrids in bold with an asterisk (*) were in the highest-yielding group for both years, 2014 and 2015.
[3]Anth=Anthracnose, % of leaf with disease symptoms
[4]Head dis=Head disease, % of head affected by disease symptoms
[5]NS=Non-significant at the 0.10 probability level

Grain Sorghum Hybrid Performance Trial at the Northeast Research Station – St. Joseph (April 1 Planting Date)

Location Summary
For this relatively early planted sorghum trial, rainfall was good across the growing season (see graph below). There was one furrow-irrigation, June 10. Grain yields were good, ranging from 89.4 to 116.3 bu/acre and a trial average of 104.5 bu/acre (Table 7). There were ten hybrids in the 2015 highest-yielding group and four hybrids that performed well both years, 2014 and 2015. Seed weight and seed per head data are presented in Table 7. Bird damage was relatively low and consistent across hybrids.

Soil type	Sharkey silty clay
Row spacing	40 inches
Seeding rate	7 seed/ft
Previous crop	Soybeans
Planting date	April 1
Fertilization	130 lb N/acre (30-0-0-2) (4/23)
Pesticides	*Postemerge:* 22 oz Facet/acre, 1 qt Atrazine/acre, and 1% COC (4/10); 1 pt Atrazine, 1.5 pt Linuron/acre, 1.33 pt Stalwart/acre, 1 oz Aim/acre, and 1% COC (5/13); *Insecticides:* 16 oz Nufos/acre (6/1 and 6/24); 1 oz Transform/acre (6/19); 6 oz Sivanto/acre (7/23);
Irrigation	Furrow-irrigated – 6/10
Harvest date	July 28

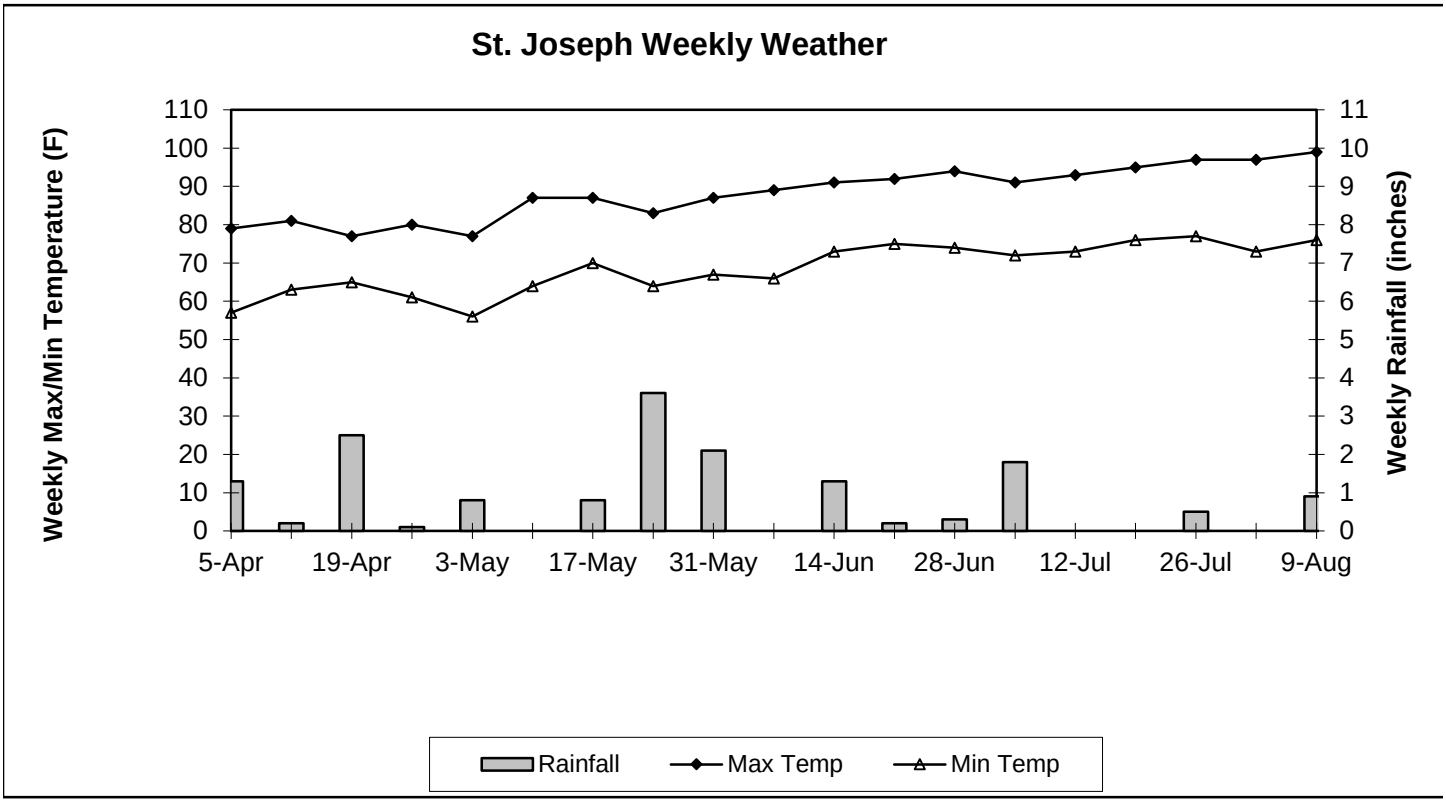

Table 6. Performance of grain sorghum hybrids planted April 1 at St. Joseph, 2015.

Brand/hybrid	2015 Yield[1]	2-yr avg[2]	Gr mo	Heads[3]	Seed wt[4]	Seed[5]	Mid-head	Plt ht	Head exert	Head type	Bird
	bu/a	bu/a	%	no/a	g/100	no/hd	DAP	in	in	1-5	%
Pioneer 84G62	**116.3**	-	17.5	68,670	2.99	1,490	73	55	6	4	5
DEKALB DKS53-67	**113.5**	104.3	14.5	76,300	2.81	1,400	71	55	7	3	5
DEKALB DKS51-01*	**112.0**	108.2	16.9	77,940	2.39	1,500	72	60	9	4	15
Pioneer 84P80	**110.3**	103.6	17.4	71,400	2.99	1,350	72	58	7	4	10
REV® RV9782™*	**110.3**	109.2	16.6	63,770	2.84	1,570	69	56	6	2	10
REV® RV9562™*	**109.9**	109.0	15.1	72,490	2.64	1,510	70	57	7	3	10
Alta Seeds XG30002	**109.6**	-	19.0	45,780	2.89	2,110	71	53	8	3	5
Alta Seeds AG1203	**109.2**	-	17.0	61,040	2.49	1,820	69	51	6	4	5
Dyna-Gro GX15672	**109.1**	-	18.5	62,680	3.13	1,390	70	60	7	2	10
Dyna-Gro 765B*	**108.0**	103.2	16.9	57,770	2.79	1,750	73	60	8	3	15
Pioneer 83P17	107.5	107.5	17.0	53,960	2.98	1,700	73	60	8	3	10
Alta Seeds AG2103	106.8	-	16.2	67,040	2.78	1,430	69	54	7	3	5
Sorghum Partners SPX17414	106.6	-	14.7	65,950	3.07	1,440	72	56	6	4	10
Pioneer 83P99	105.4	97.0	17.9	60,500	2.90	1,550	74	53	5	2	5
Sorghum Partners SP70B17	104.1	-	18.0	52,320	3.09	1,650	69	54	7	2	5
Sorghum Partners SP7868	103.9	98.4	15.9	56,140	2.70	1,740	71	58	9	2	5
Alta Seeds AG3201	103.6	-	18.0	71,400	3.08	1,210	69	59	8	3	10
Mycogen 1G855	103.5	-	16.3	61,040	2.47	1,780	75	57	6	1	10
Alta Seeds AG2105	103.4	-	16.4	59,950	2.88	1,470	70	58	10	3	5
Dyna-Gro GX15561	102.9	-	17.1	68,670	2.75	1,510	70	58	6	3	5
Alta Seeds XG30001	102.9	-	18.8	64,310	2.87	1,420	68	55	9	2	10
Sorghum Partners SP7715	101.7	100.6	17.2	61,040	2.85	1,430	72	60	10	4	15
Alta Seeds AG2115	101.5	-	17.0	58,320	2.96	1,530	68	54	7	3	5
Sorghum Partners SPX17514	100.5	-	16.9	62,130	3.03	1,330	72	59	6	3	10
Dyna-Gro M75GB39	100.2	97.1	16.7	83,930	2.82	1,060	69	54	10	3	5
Sorghum Partners NK6638	99.1	97.7	15.0	56,140	2.69	1,580	71	59	8	5	10
REV® RV9924™	98.5	100.7	16.4	56,140	2.85	1,520	72	57	6	3	10
Alta Seeds AG3101	97.4	-	16.5	72,490	3.28	900	70	64	10	1	25
Dyna-Gro M77GB52	96.5	96.2	15.1	59,410	2.57	1,610	71	58	9	5	10
Alta Seeds XG02008	95.5	-	16.1	58,860	2.69	1,520	68	56	10	1	15
Alta Seeds XG30003	89.4	-	20.9	55,590	2.76	1,520	72	52	6	3	0
Average	**104.5**		**16.9**	**63,330**	**2.84**	**1,510**	**71**	**56**	**7**	**3**	**10**
CV, %	**8**		**7**	**10**	**7**	**14**	**1**	**3**	**18**	**19**	**59**
LSD (0.10)	**8.6**		**1.9**	**10,650**	**0.31**	**360**	**1**	**3**	**2**	**1**	**5**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2015.

[2]Hybrids in bold with an asterisk (*) were in the highest-yielding group for both years, 2014 and 2015.

[3]Heads=Head count, number/acre

[4]Seed wt=Seed weight, grams (g), per 100 seed

[5]Seed=Number of seed per head (hd)

Grain Sorghum Hybrid Performance Trial at the Northeast Research Station – St. Joseph (May 5 Planting Date)

Location Summary
Rainfall was low in July (see graph below). Only furrow irrigation occurred on June 10. Grain yields averaged across hybrids 113.1 bu/acre (Table 8). Only three hybrids had yields less than 100 bu/acre. Fifteen hybrids were in the 2015 highest-yielding group and five hybrids performed well both years, 2014 and 2015. Seed weight and seed per head data are presented in Table 8. Other agronomic data are presented in Table 8.

Soil type	Sharkey silty clay
Row spacing	40 inches
Seeding rate	7 seed/ft
Previous crop	Soybeans
Planting date	May 5
Fertilization	130 lb N/acre (30-0-0-2) (5/15)
Pesticides	*Preemerge:* 1 qt Round-up plus 3 qt Lexar EZ/acre (5/7); *Insecticides:* 1 oz Transform/acre (6/19); 6 oz Sivanto/acre (7/23); 1.5 oz Transform/acre plus 16 oz Nufos/acre (7/9); 16 oz Nufos/acre (7/13);
Irrigation	Furrow-irrigated – 6/10
Harvest date	August 21

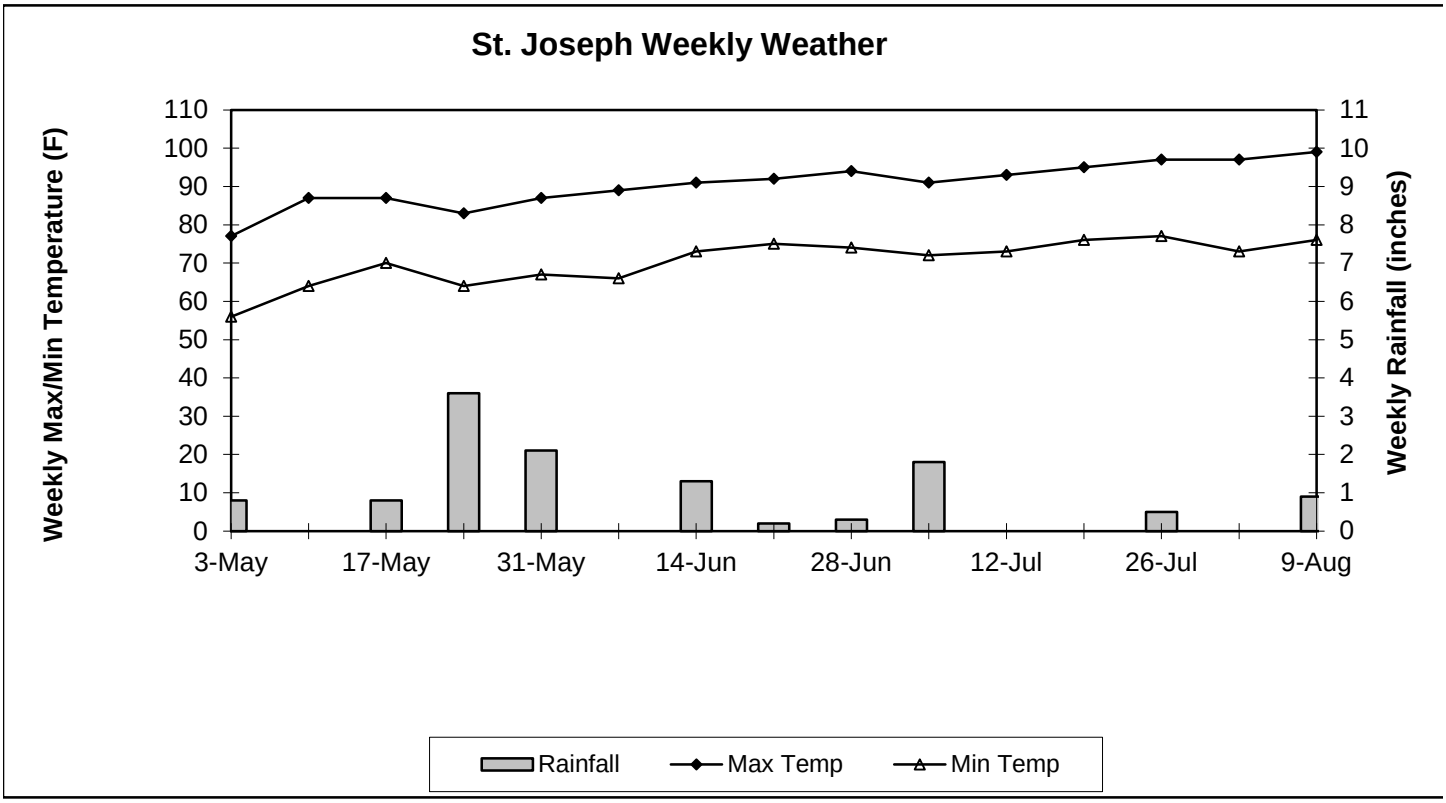

Table 7. Performance of grain sorghum hybrids planted May 5 at St. Joseph, 2015.

Brand/hybrid	2015 Yield	2-Yr avg	Gr mo	Test wt	Heads[3]	Seed wt[4]	Seed[5]	Mid-head	Plt ht	Head exert
	bu/a	bu/a	%	lb/bu	no/a	g/100	no/hd	DAP	in	in
Dyna-Gro GX15672	**125.1**	-	16.0	57.9	64,860	2.65	1,850	58	63	6
Dyna-Gro 765B*	**124.3**	111.3	17.1	56.7	62,680	2.43	2,090	61	61	7
Sorghum Partners SP7868	**124.3**	108.6	17.4	57.5	64,310	2.50	1,960	57	58	8
Pioneer 83P99	**124.1**	106.3	16.8	57.3	67,580	3.09	1,540	57	56	5
Mycogen 1G855	**124.1**	-	16.8	56.5	59,410	2.36	2,210	61	57	5
Pioneer 83P17*	**124.0**	115.7	18.5	55.0	69,760	3.03	1,460	60	64	7
Alta Seeds AG3201	**120.9**	-	16.3	56.8	71,940	3.53	1,160	57	55	5
DEKALB DKS51-01*	**120.6**	112.5	16.8	57.2	65,400	2.32	2,170	60	57	5
Dyna-Gro GX15561	**119.9**	-	17.7	56.5	67,040	2.44	1,910	59	59	6
Sorghum Partners SP7715*	**117.2**	108.4	16.6	54.5	67,040	2.76	1,580	58	62	7
Alta Seeds AG2105	**116.8**	-	17.2	56.7	64,860	2.82	1,710	55	60	8
REV® RV9924™*	**116.2**	109.6	16.0	57.1	79,030	2.70	1,420	58	62	9
Alta Seeds XG30002	**115.5**	-	19.8	55.5	53,410	2.77	1,950	59	52	6
Pioneer 84P80	**115.4**	106.2	16.4	57.6	62,130	3.33	1,430	57	54	2
Alta Seeds AG1203	**114.1**	-	19.0	56.3	56,680	3.02	1,660	56	53	6
REV® RV9562™	113.4	110.7	16.3	57.5	70,850	2.58	1,640	55	56	9
Sorghum Partners SP70B17	113.4	-	16.8	54.7	55,590	3.02	1,750	58	54	6
Alta Seeds XG30001	112.3	-	19.2	55.9	59,950	2.64	1,810	56	53	9
Pioneer 84G62	111.6	-	16.3	57.1	68,670	3.02	1,420	57	53	3
Dyna-Gro M75GB39	108.8	101.4	17.0	56.3	67,580	2.87	1,400	57	55	6
Sorghum Partners SPX17414	108.8	-	17.0	55.9	63,770	2.99	1,430	56	56	4
Sorghum Partners SPX17514	108.3	-	18.6	54.6	53,960	2.93	1,720	60	60	5
REV® RV9782™	108.1	108.1	17.0	56.3	69,760	2.69	1,410	57	55	5
Alta Seeds XG30003	107.9	-	20.7	55.7	61,590	2.42	1,860	61	55	8
DEKALB DKS53-67	106.0	100.6	18.1	56.1	64,860	3.03	1,380	58	57	6
Alta Seeds AG2103	105.8	-	18.3	56.4	62,680	2.76	1,630	58	55	7
Alta Seeds AG2115	103.6	-	17.2	55.5	52,320	2.91	1,860	55	52	8
Dyna-Gro M77GB52	102.2	99.0	16.1	57.3	58,320	2.78	1,610	59	56	6
Alta Seeds XG02008	99.7	-	16.9	54.5	56,140	2.79	1,670	57	52	8
Sorghum Partners NK6638	98.0	97.2	16.8	56.1	68,130	2.78	1,220	57	59	8
Alta Seeds AG3101	95.3	-	17.3	57.7	68,130	2.77	1,390	57	63	8
Average	**113.1**		**17.3**	**56.3**	**63,820**	**2.79**	**1,650**	**58**	**57**	**6**
CV, %	**8**		**3**	**2**	**8**	**10**	**16**	**3**	**3**	**24**
LSD (0.10)	**11.6**		**0.8**	**1.8**	**8,930**	**0.47**	**460**	**3**	**3**	**3**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2015.
[2]Hybrids in bold with an asterisk (*) were in the highest-yielding group for both years, 2014 and 2015.
[3]Heads=Head count, number heads/acre
[4]Seed wt=Seed weight, grams (g), per 100 seed
[5]Seed=Number of seed per head (hd)

Grain Sorghum Hybrid Performance Trial at the Macon Ridge Research Station – Winnsboro

Location Summary
Rainfall in June and July was below normal (see graph below). This reflected in low grain yields, ranging from 43.5 to 83.7 bu/acre and a trial average of 68.2 bu/acre (Table 11). Test weights were excellent. Seed weight and seed per head data are presented in Table 11. A few hybrids had lodged plants probably due to Charcoal Rot, which is often caused by dry soil conditions and sometimes low soil potassium. Other agronomic data are presented in Table 11.

Soil type	Gigger silt loam
Row spacing	40-inches
Seeding rate	7 seed/ft
Previous crop	Soybeans
Planting date	May 6
Fertilization	*Sidedress:* 120 lb N/acre (30-0-0-2) (5/14)
Pesticides	*Burndown:* 1 qt Round-up/acre plus 1.5 pts 2,4-D/acre (4/8); *Preemerge:* 1 qt Round-up/acre, 1 qt Atrazine/acre, and 1 pt Dual/acre (5/6); *Postemerge:* 1 qt Atrazine/acre plus 1 pt Linuron/acre (6/1); *Insecticides:* 4 oz Sivanto/acre (6/20); 1.3 oz Baythroid/acre (7/10); 3.3 oz Blackhawk/acre (7/20); 1.5 oz Transform/acre (8/1);
Harvest date	August 28

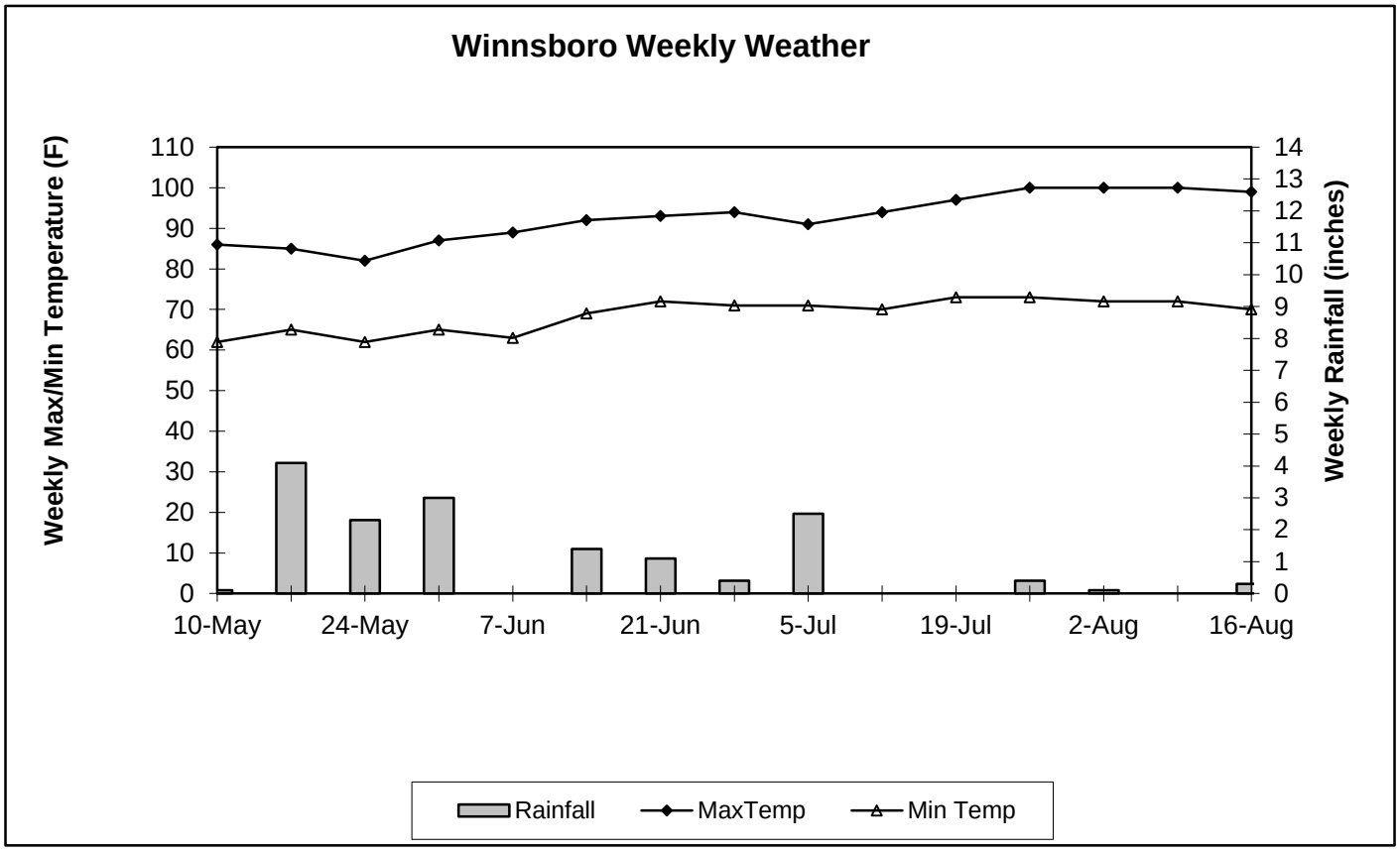

Table 8. Performance of grain sorghum hybrids at Winnsboro, 2015.

Brand/hybrid	2015 Yield[1]	2-yr avg	Gr mo	Test wt	Heads[3]	Seed wt[4]	Seed[5]	Mid-Head	Plt ht	Head exert	Bird	CR[6]
	bu/a	bu/a	%	lb/bu	no/a	g/100	no/hd	DAP	in	in	%	%
Sorghum Partners SPX17414	**83.7**	-	12.6	55.6	61,590	2.25	1,490	64	54	4	5	5
DEKALB DKS53-67*	**82.5**	78.9	13.0	59.4	65,400	2.27	1,380	63	54	2	0	0
REV® RV9782™*	**82.3**	82.8	12.1	56.3	55,050	2.22	1,550	62	53	4	0	0
Pioneer 84P80	**81.5**	65.8	12.4	58.4	65,950	2.41	1,190	62	53	2	5	0
DEKALB DKS51-01*	**80.4**	76.1	12.4	57.7	64,860	1.80	1,640	65	55	3	5	0
REV® RV9924™*	**78.3**	74.6	12.5	57.5	69,220	2.22	1,220	62	55	1	10	0
Pioneer 83P99	**76.3**	69.5	12.6	58.0	58,320	2.14	1,330	67	47	0	5	0
Sorghum Partners SPX17514	**76.3**	-	13.1	56.4	59,950	2.70	1,300	65	57	3	0	0
Alta Seed XG30003	**74.2**	-	13.5	57.3	58,860	2.36	1,310	64	51	4	0	0
Alta Seed XG30002	**73.9**	-	13.0	57.3	57,770	2.73	1,240	62	51	5	15	0
Pioneer 84G62	**72.9**	-	12.3	58.0	68,130	2.44	1,110	63	50	2	5	45
Sorghum Partners SP70B17	72.0	-	12.4	55.6	57,230	2.50	920	64	52	3	10	0
Pioneer 83P17	71.0	62.9	12.6	55.5	61,040	2.06	1,470	66	58	2	5	0
Sorghum Partners SP7715	69.2	61.2	12.8	57.7	62,130	2.02	1,240	62	55	6	10	5
Mycogen 1G855	69.1	-	13.2	57.8	48,510	2.02	1,660	70	52	2	5	0
Alta Seed XG30001	68.9	-	12.5	57.4	53,960	2.55	1,110	60	49	5	15	0
Alta Seeds AG3201	67.8	-	12.7	57.0	63,770	2.83	970	64	53	2	5	0
Dyna-Gro M77GB52	66.7	66.1	12.5	57.8	52,870	2.01	1,490	65	51	2	5	0
Alta Seeds AG2103	66.3	-	12.0	56.4	47,960	2.33	1,320	62	50	4	5	5
Sorghum Partners NK6638	65.7	74.2	12.1	57.0	62,130	1.77	1,640	65	49	2	10	5
Dyna-Gro 765B	63.8	54.8	12.3	57.7	46,870	2.05	1,640	68	53	2	10	0
Alta Seeds AG2115	63.7	-	12.0	55.7	62,680	2.25	980	61	46	1	5	0
Alta Seed XG02008	63.6	-	12.1	56.7	55,590	2.02	1,360	61	49	3	10	0
Alta Seeds AG2105	63.1	-	12.0	56.7	53,960	1.99	1,270	64	52	6	10	5
Sorghum Partners SP7868	62.8	60.6	12.3	56.2	65,950	1.44	1,130	67	48	3	0	0
Alta Seeds AG1203	62.7	-	12.6	57.8	54,500	1.96	1,590	64	54	4	10	0
Dyna-Gro M75GB39	61.2	68.5	11.9	55.9	54,500	2.08	1,170	65	45	4	5	0
REV® RV9562™	60.3	65.7	12.1	57.1	64,310	1.84	1,370	63	52	3	15	0
Dyna-Gro GX15672	45.8	-	12.2	56.8	41,420	2.14	1,280	65	57	3	20	5
Dyna-Gro GX15561	44.7	-	12.1	58.4	46,870	1.81	1,260	66	51	1	15	15
Alta Seeds AG3101	43.5	-	12.5	58.0	48,510	2.43	1,060	61	59	6	25	15
Average	**68.2**		**12.4**	**57.1**	**57,730**	**2.18**	**1,310**	**64**	**52**	**3**	**5**	**10**
CV, %	**16**		**2**	**1**	**11**	**8**	**17**	**3**	**7**	**49**	**142**	**59**
LSD (0.10)	**11.6**		**0.4**	**1.2**	**10,380**	**0.3**	**370**	**3**	**6**	**3**	**10**	**NS[7]**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2015.

[2]Hybrids in bold with an asterisk (*) were in the highest-yielding group for both years, 2014 and 2015.

[3]Heads=Head count, number heads/acre

[4]Seed wt=Seed weight, grams (g), per 100 seed

[5]Seed=Number of seed per head (hd)

[6]CR=Crown rot, % of plants lodged resulting from the disease

[7]NS=Non-significant at the 0.10 probability level

Table 9. Summary of yield performance of grain sorghum hybrids at five locations in the 2015 LAES official variety trials.

					St. Joseph[2]			
Brand/Hybrid	**Alex[1]**	**BR**	**BC**	**CR**	**PD1**	**PD2**	**WN**	**Avg**
	bu/acre							
Alta Seeds AG1203	103.0	69.7	112.3	43.7	109.2	114.1	62.7	87.8
Alta Seeds AG2103	96.3	85.5	93.4	40.0	106.8	105.8	66.3	84.9
Alta Seeds AG2105	114.3	111.8	112.6	62.7	103.4	116.8	63.1	97.8
Alta Seeds AG2115	86.2	89.5	129.2	53.9	101.5	103.6	63.7	89.7
Alta Seeds AG3101	84.8	93.5	85.4	62.7	97.4	95.3	43.5	80.4
Alta Seeds AG3201	96.9	99.4	116.5	56.8	103.6	120.9	67.8	94.6
Alta Seeds XG02008	88.4	89.1	94.8	61.8	95.5	99.7	63.6	84.7
Alta Seeds XG30001	75.4	96.4	106.9	52.3	102.9	112.3	68.9	87.9
Alta Seeds XG30002	94.8	90.6	123.0	49.6	109.6	115.5	73.9	93.9
Alta Seeds XG30003	84.9	76.8	105.8	36.6	89.4	107.9	74.2	82.2
DEKALB DKS51-01	130.6	77.6	155.0	55.0	112.0	120.6	80.4	104.5
DEKALB DKS53-67	112.5	91.0	122.1	50.8	113.5	106.0	82.5	96.9
Dyna-Gro 765B	111.1	84.0	104.9	58.1	108.0	124.3	63.8	93.5
Dyna-Gro GX15561	103.5	89.4	127.1	38.5	102.9	119.9	44.7	89.4
Dyna-Gro GX15672	118.9	84.4	117.1	51.3	109.1	125.1	45.8	93.1
Dyna-Gro M75GB39	108.8	88.3	91.6	45.0	100.2	108.8	61.2	86.3
Dyna-Gro M77GB52	85.7	90.0	103.5	52.0	96.5	102.2	66.7	85.2
Mycogen 1G855	87.4	54.6	142.4	45.0	103.5	124.1	69.1	89.4
Pioneer 83P17	114.7	86.3	135.8	57.6	107.5	124.0	71.0	99.6
Pioneer 83P99	101.3	97.2	124.6	53.0	105.4	124.1	76.3	97.4
Pioneer 84G62	108.6	96.6	108.6	52.2	116.3	111.6	72.9	95.3
Pioneer 84P80	96.9	103.0	107.8	60.5	110.3	115.4	81.5	96.5
REV® RV9562™	118.9	97.1	120.7	60.8	109.9	113.4	60.3	97.3
REV® RV9782™	118.9	84.8	127.7	52.9	110.3	108.1	82.3	97.9
REV® RV9924™	106.1	95.7	126.9	59.7	98.5	116.2	78.3	97.3
Sorghum Partners NK6638	90.5	92.3	119.4	53.9	99.1	98.0	65.7	88.4
Sorghum Partners SP70B17	101.1	89.6	111.8	64.9	104.1	113.4	72.0	93.8
Sorghum Partners SP7715	99.0	99.5	119.6	57.3	101.7	117.2	69.2	94.8
Sorghum Partners SP7868	98.8	94.3	117.5	56.9	103.9	124.3	62.8	94.1
Sorghum Partners SPX17414	104.0	81.9	83.3	48.7	106.6	108.8	83.7	88.1
Sorghum Partners SPX17514	103.2	57.5	92.5	50.8	100.5	108.3	76.3	84.2
Average	**101.4**	**88.3**	**114.2**	**53.1**	**104.5**	**113.1**	**68.2**	

[1]Alex=Alexandria; BR=Baton Rouge; BC=Bossier City; CR=Crowley; WN=Winnsboro;
[2]PD1=April 1 planting date; PD2=May 5 planting date ;

Table 10. List of participating seed companies and hybrids tested in the LAES 2015 grain sorghum official variety trials.

Company	Brand/Hybrid
Alta Seeds 301 S. Polk, Ste 350 Amarillo, TX 79101	Alta Seeds AG1203, Alta Seeds AG2103, Alta Seeds AG2105, Alta Seeds AG2115, Alta Seeds AG3101, Alta Seeds AG3201, Alta Seeds XG02008, Alta Seeds XG30001, Alta Seeds XG30002, Alta Seeds XG30003
Chromatin, Inc/Sorghum Partners 8509 Venita Avenue Lubbock, TX 79401	Sorghum Partners NK6638, Sorghum Partners SP70B17, Sorghum Partners SP7715, Sorghum Partners SP7868, Sorghum Partners SPX17414, Sorghum Partners SPX17514
Crop Production Services/Dyna-Gro Seed 11 Gin Rd Rayville, LA 71269	Dyna-Gro 765B, Dyna-Gro GX15561, Dyna-Gro GX15672, Dyna-Gro M75GB39, Dyna-Gro M77GB52
Dupont/Pioneer 59 Greif Parkway, Suite 200 Delaware, OH 43015	Pioneer 83P17, Pioneer 83P99, Pioneer 84G62, Pioneer 84P80
Monsanto/Dekalb 982 US Hwy 77 Bishop, TX 98343	DEKALB DKS51-01, DEKALB DKS53-67
Mycogen Seeds 253 Avondale Road Greenville, MS 38703	Mycogen 1G85
Terral Seed, Inc. 111 Ellington Dr. Rayville, LA 71269	REV®RV9562™, REV®RV9782™, REV®RV9924™

Table 11. Sorghum hybrids that have demonstrated resistance to sugarcane aphid that may be available in 2016[1].

		Av. Yield across Locations (bu/ac)			Resistance Confirmed by:	
			SCA resistance screens[3,4]			
Company	Hybrid	OVT's[2]	Aphids sprayed	Aphids Non-sprayed	LSU AgCenter	Other
Alta	AG1201	--	--	--		X
	AG1301	--	--	--		X
	AG1203	90.8	--	--	X	X
B&H	BH 4100	--	--	--		X
	BH 3400	--	--	--		X
Dekalb	DKS37-07	--	115.5	115.9	X	X
	Pulsar	--	--	--		X
Dyna Gro	GX15561	89.5	--	--	X	
Mycogen	627	--	--	--		X
	1G688	--	--	--		X
	1G855	95.3	--	--	X	
Pioneer	83P17	101.8	110.3	104.8	X	X
	83P56	--	--	--		X
Richardson	RS260E	--	108.2	111.1	X	X
	RS84353	--	93.8	97.7	X	
	Sprint W FG	--	--	--		X
	Jowar I	--	--	--		X
Sorghum Partners	SP7715	94.0	97.9	94.6	X	X
	SPX17414	89.2	96.1	95.2	X	X
	SPX17514	88.6	79.0	84.8	X	X
	SPX760	--	102.3	102.3	X	
	SP6929	--	112.9	105.9	X	
Terral/Rev	9782	100.0	--	--	X	
Warner	W-844-E	--	110.6	112.4	X	

Information compiled by Rick Mascagni, Fangneng Huang, Sebe Brown, Julien Beuzelin and David Kerns, LSU AgCenter, and Brent Bean, United Sorghum.

[1]Although resistance is reported, unacceptable numbers of sugarcane aphids may still develop.

[2]Yields represent an average of six Louisiana OVTs in 2015 at five locations: Alexandria, LA (non-irrigated), Bossier City (non-irrigated), Crowley (non-irrigated), 2x St. Joseph (irrigated) , and Winnsboro (non-irrigated).

[3]Yields represent an average between Alexandria (non-irrigated), St. Joseph (non-irrigated), and Winnsboro (irrigated).

[4]Yields where sugarcane aphids were sprayed and controlled as well as non-sprayed and left uncontrolled are represented.